Digital Single-Day Maximum and Minimum Temperature Protocol

Field Guide

Task

Measure the current, maximum, and minimum air temperatures from the digital single-day thermometer.

Measure the current, maximum, and minimum soil temperatures from the digital single-day thermometer (optional).

Reset the digital thermometer to start the next 24-hour measurement.

A properly sited instrument shelter	☐ An appropriate <i>Data Sheet</i>
A properly calibrated and installed digital single-day max/min thermometer	☐ Pen or pencil
An accurate watch or other device that tells time	
Note: Make sure that the digital thermomete	r is reading in Celsius units. If it is not press the °C/

Note: Make sure that the digital thermometer is reading in Celsius units. If it is not, press the °C/°F button to switch to Celsius units.

In the Field

- 1. Within an hour of local solar noon, open the instrument shelter being careful not to breathe on the thermometer.
- 2. Record the time and date on your *Data Sheet* in both local and UT time. **Note:** GLOBE Web site entry should be UT time.
- 3. Make sure that your thermometer is displaying the current temperature(s) (Neither 'MAX' or 'MIN' symbols should be displayed on the screen. If they are, press the *MAX/MIN* button until they disappear).
- 4. Record the current air temperature on your *Data Sheet*. If you are taking soil readings, also record the soil temperature.
- 5. Press the MAX/MIN button once.
- 6. Maximum temperature reading(s) will now be displayed along with the 'MAX' symbol on the display screen.
- 7. Record the maximum air temperature on your *Data Sheet*. If you are taking soil readings, also record the maximum soil temperature.
- 8. Press the MAX/MIN button a second time.
- 9. Minimum temperature reading(s) will now be displayed along with the 'MIN' symbol on the display screen.
- 10. Record the minimum air temperature on your data sheet. If you are taking soil readings, also record the minimum soil temperature.
- 11. Press and hold the MAX/MIN button for one second. This will reset your thermometer.
- 12. Close the instrument shelter.